

AMENDMENTS TO THE SPECIFICATION

Please insert the following headings and paragraph at page 1, after the title:

PRIORITY CLAIM

This is a U.S. national stage of International Application No. PCT/EP2003/07131, filed on June 12, 2003. Priority is claimed on that application and on the following application:

Country: France, Application No. 02/07297, Filed: June 13, 2002.

BACKGROUND OF THE INVENTION

Please insert the following heading at page 1, between lines 13 and 14:

SUMMARY OF THE INVENTION

Please replace the paragraph beginning at page 1, line 18 to page 2, line 15, with the following rewritten paragraph:

To this end, the device of the invention, which moreover complies with the generic definition provided by the above preamble, is essentially characterised in that it comprises among others comprises an electrical security circuit, selectively adopting a security configuration or an anomaly configuration, in that each Each peripheral device is at all times subject to a condition which affects it entirely or partially, that belongs to a number of possible conditions including a reference condition, and for which the peripheral device selectively reports in the form of a context code, and in that the The control central processing unit comprises at least a first transmission controller which has, for each peripheral device, a stored reference code formed by the context code transmitted by this peripheral device for its reference condition, which takes the context code of each of each of the peripheral devices by periodic polling of these peripheral devices according to a predetermined addressing order, which carries out comparisons of the context codes one by one that have been taken by polling of the peripheral devices and stored

reference codes it stores, and which commands the passage of the security circuit from its security configuration to its anomaly configuration in response to the detection of the absence of one of the codes to be compared or a disparity between the codes compared by it.

Please replace the paragraph beginning at page 2, line 22 to page 3, line 3, with the following rewritten paragraph:

It may be useful to provide for the control central processing unit to include a second transmission controller that also has, for each peripheral device, a stored reference code formed by the context code that this peripheral device provides for its reference condition, ~~and that this~~. This second transmission controller, independently of the first transmission controller, carries out comparisons, one by one, of the context codes taken by polling of the peripheral devices and the reference codes stored by it, and commands the passage of the security circuit from its security configuration to its anomaly configuration in response to the detection of the absence of one of the codes to be compared or a disparity between the codes compared by it.

Please replace the paragraph beginning at page 3, line 4 to page 3, line 11, with the following rewritten paragraph:

For example, each transmission controller comprises, in memory, a fixed table of reference codes stored during an installation phase of the device and a dynamic table registering the context codes taken by polling of the peripheral devices, ~~each~~. Each transmission controller ~~is thus [[being]]~~ able to compare the respective contents of the fixed table and the dynamic table by periodically updating the contents of the dynamic table.

Please replace the paragraph beginning at page 3, line 18 to page 4, line 2, with the following rewritten paragraph:

In its most accomplished form, the device of the invention may be designed so that each peripheral device includes a pair of interactive organs including a master organ and a slave organ associated to one another, ~~that the~~. The communication network connects the central processing unit to the various control master organs, ~~that for~~. For each peripheral device, the condition represented by the context code is a condition affecting the slave organ or a relation between the slave organ and the master organ of this peripheral device, ~~and that the~~. Furthermore, the master organ of each peripheral device electrically powers the slave organ of this peripheral device and constitutes an interface between this slave organ and the first transmission controller of the control central processing unit, the master organs being electrically powered for example by the first controller via the network.

Please replace the paragraph beginning at page 4, line 28 to page 5, line 9, with the following rewritten paragraph:

In this case, it may be wise to provide that, for each peripheral device, the state encoder essentially includes a pair of permanently ~~magnetised~~ magnetized tracks distant from one another, carried by the slave organ of this peripheral device, and a corresponding pair of Hall effect sensors, carried by the corresponding master organ, ~~that the magnetised~~. The magnetized tracks are positioned opposite the corresponding Hall effect sensors for a reference relative position of the slave organ with respect to the master organ, that is unique and which constitutes the reference condition, ~~and that the~~. The state signal takes at least two different logic values, depending on whether the slave organ is in its reference relative position with respect to the master organ or not.

Please insert the following heading beginning at page 5, between lines 9 and 10:

BRIEF DESCRIPTION OF THE DRAWINGS

Please insert the following heading beginning at page 6, between lines 3 and 4:

DETAILED DESCRIPTION OF THE INVENTION

Please replace the paragraph beginning at page 7, line 12 to page 7, line 20, with the following rewritten paragraph:

Even though the transmission channel 50 can be formed by a radio channel, and even though, furthermore, the peripheral device Pa to Pn may be electrically powered in situ by a decentralised decentralized source, the hypothesis will be used hereunder that the transmission channel 50 is constituted by a wire bus through which, moreover, the peripheral devices are electrically powered, this layout corresponding to a particularly advantageous application of the invention.

Please replace the paragraph beginning at page 8, line 3 to page 8, line 7, with the following rewritten paragraph:

Each of the transmission controllers 41 and 42 periodically [[poll]] polls each of the peripheral devices Pa to Pn, according to a predetermined addressing order, and taking takes the context code Ka to Kn of each peripheral devices thus polled.

Please replace the paragraph beginning at page 10, line 15 to page 10, line 24, with the following rewritten paragraph:

In this case, if we note Ca, Cb, Cc, and Cn the identification codes respectively attributed to the peripheral devices Pa, Pb, Pc, Pn, the context codes [[ka]] Ka, Kb, Kc and Kn are respectively constituted by these identification codes, Ca, Cb, Cc and Cn, when all of the peripheral devices are in their reference condition, the context code Kx of any peripheral device Px that is not in its reference condition being in return constituted by the absence of transmission of the corresponding identification code Cx.

Please replace the paragraph beginning at page 13, line 7 to page 13, line 13, with the following rewritten paragraph:

More precisely, the stat_a Stat-a signal reflects, for the peripheral device Pa, a condition affecting the slave organ 1a or a relationship between the slave organ 1a and the master organ 2a of this peripheral device, this condition being precisely that to which the supply of the identification code Ca as the context code Ka is subordinate.

Please replace the paragraph beginning at page 13, line 14 to page 13, line 18, with the following rewritten paragraph:

In the case of the state signal such as stat_a Stat-a concerning a relationship between the label 100 and the reader 200, this relation may be constituted by a relative position of these two organs, as illustrated by the figures 4A to 4C.

Please replace the paragraph beginning at page 13, line 19 to page 13, line 21, with the following rewritten paragraph:

In this case, the slave organ 1a is mobile with respect to the master organ 2a, and the state signal stat_a Stat-a is then representative of the relative position adopted at each moment by these two organs.

Please replace the paragraph beginning at page 13, line 30 to page 14, line 3, with the following rewritten paragraph:

Figures 2 to 4C illustrate an embodiment in which the state encoder 3 comprises two magnetised magnetized tracks 311 and 312, permanently magnetised magnetized, distant from one another and carried by the slave organ 1a, and two corresponding Hall effect sensors 321 and 322, carried by the master organ 2a.

Please replace the paragraph beginning at page 14, line 4 to page 14, line 9, with the following rewritten paragraph:

The magnetised magnetized tracks 311 and 312 are positioned opposite the corresponding Hall effect sensors 321 and 322 for the unique relative position of the organs 1a and 2a as shown in figure 4C, this relative position being used as a reference and thus constituting the reference condition.

Please replace the paragraph beginning at page 14, line 10 to page 14, line 16, with the following rewritten paragraph:

The Hall effect sensors 321 and 322 are connected to the electrical power and formatting circuit 30 which produces the state signal stat_a Stat-a and which supplies it to the control circuit 22, this signal taking at least two different main logic values, depending on whether the slave organ 1a is in its reference relative position with respect to the master organ 2a or not.

Please replace the paragraph beginning at page 14, line 17 to page 14, line 23, with the following rewritten paragraph:

In other words, regardless of the number of bits used to encode the state signal stat_a Stat-a, the representative code of this signal starts by a bit whose high order position is equal to "1" or "0" (or the opposite), depending on whether the slave organ 1a is in its reference relative position with respect to the master organ 2a or not.

Please replace the paragraph beginning at page 14, line 24 to page 14, line 30, with the following rewritten paragraph:

Figure 4A shows the slave organ 1a in a position distant from the master organ 2a, which is to say in a position in which none of the Hall effect sensors 321 and 322 can detect one of the magnetised magnetized tracks 311 and 312, and in which the antennae 10 and 20 are too far offset with respect to one another to allow communication between the reader 200 and the label 100.

Please replace the paragraph beginning at page 14, line 31 to page 15, line 6, with the following rewritten paragraph:

Figure 4B shows the slave organ 1a in an "intermediate" position with respect to the master organ 2a, which is to say in a position in which only one of the Hall effect sensors 321 and 322 detects one of the magnetised magnetized tracks 311 and 312, the antennae 10 and 20 moreover being possibly too far offset with respect to one another to allow communication between the reader 200 and the label 100.

Please replace the paragraph beginning at page 15, line 7 to page 15, line 13, with the following rewritten paragraph:

Finally, figure 4C shows the slave organ 1a in its reference position with respect to the master organ 2a, which is to say in a position in which each of the Hall effect sensors 321 and 322 detects the corresponding magnetised magnetized tracks 311 and 312, and in which the antennae 10 and 20 allow communication between the reader 200 and the label 100.

Please replace the paragraph beginning at page 15, line 14 to page 15, line 19, with the following rewritten paragraph:

For the relative positions illustrated in figure 4A and 4B, the stat_a Stat-a signal takes a value such that the identification code Ca is not transmitted to the central processing unit 4, this code being transmitted in return as a context code Ka for the reference relative position illustrated in figure 4C.